

TWO-HOP TELEMETRY INTERFACE FOR MEDICAL DEVICE

ABSTRACT

This document discusses a system that includes an intermediary telemetry
5 interface device for communicating between a cardiac rhythm management system
or other implantable medical device and a programmer or other remote device. One
example provides an inductive near-field communication link between the telemetry
interface and the implantable medical device, and a radio-frequency (RF) far-field
communication link between the telemetry interface device and the remote device.
10 The telemetry interface device provides data buffering. In another example, the
telemetry interface device includes a data processing module for compressing and/or
decompressing data, or for extracting information from data. Such information
extraction may include obtaining heart rate, interval, and/or depolarization
morphology information from an electrogram signal received from the implantable
15 medical device.

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